

10/533305

JC17 Rec'd PCT/PTO 29 APR 2005

IN THE CLAIMS

Claims 1-41 (cancelled)

Claim 42 (new) A method of producing an image on a printing screen,
comprising:

depositing an emulsion on the printing screen in an image-wise manner;

depositing a first agent with the emulsion, the first agent being a chemical in liquid
solution and that forms solids upon reaction with a second agent;

providing the second agent to the deposited emulsion; and

providing a curing agent to the emulsion,

whereby the first agent forms solids within the emulsion upon reaction with the second
agent, and whereby the emulsion cures about the solids so as to inhibit spread of the
emulsion.

Claim 43 (new) The method of claim 42 wherein the second agent is atmospheric
oxygen, and wherein the first agent is maintained in an oxygen deficient environment
until deposited with the emulsion.

Claim 44 (new) The method of claim 43 wherein the first agent is FeSO_4 .

Claim 45 (new) The method of claim 43 wherein the first agent is pre-mixed in
solution with the emulsion such that depositing the first agent occurs as part of
depositing the emulsion.

Claim 46 (new) The method of claim 45 wherein the first agent is FeSO_4 .

Claim 47 (new) The method of claim 42 wherein the second agent is a chemical in
liquid solution, and wherein the method comprises the further step of depositing the
second agent with the emulsion.

Claim 48 (new) The method of claim 47 wherein the first agent is CaCl and the
second agent is NaCO_3 .

Claim 49 (new) The method of claim 42 wherein the curing agent comprises
photons emitted by a Light Emitting Diode.

Claim 50 (new) The method of claim 42 wherein the emulsion is a diluted and filtered photopolymer.

Claim 51 (new) The method of claim 50 wherein the emulsion and the first agent are each provided in a separate well of an inkjet cartridge, and wherein the emulsion and the first agent are deposited simultaneously using an inkjet printer.

Claim 52 (new) The method of claim 51 wherein the emulsion and the first agent are deposited based on a computer-to-screen imaging system.

Claim 53 (new) The method of claim 51 wherein the curing agent is a chemical in liquid solution, wherein the curing agent is provided in a separate well of the inkjet cartridge, and wherein providing the curing agent to the emulsion comprises depositing the curing agent using the inkjet printer simultaneously to depositing the emulsion.

Claim 54 (new) The method of claim 51 wherein the second agent is atmospheric oxygen, and whereby the first agent forms insoluble agents upon deposition of the emulsion on the printing screen.

Claim 55 (new) The method of claim 54 wherein the first agent is FeSO_4 .

Claim 56 (new) The method of claim 55 wherein the FeSO_4 and the atmospheric oxygen together act as the curing agent.

Claim 57 (new) The method of claim 51 wherein the second agent is a chemical in liquid solution provided in a separate well of the inkjet cartridge, and wherein the method comprises the further step of depositing the second agent simultaneously with the emulsion.

Claim 58 (new) The method of claim 57 wherein the first agent is CaCl and the second agent is NaCO_3 .

Claim 59 (new) The method of claim 51 wherein the curing agent comprises photons emitted by a Light Emitting Diode.